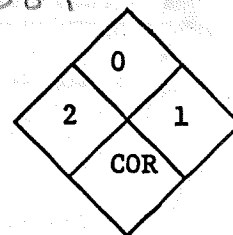


AMCHEM PRODUCTS, INC.
Division of Henkel Corporation
300 Brookside Avenue
Ambler, PA 19002



MATERIAL SAFETY DATA SHEET

PRODUCT TRADE NAME Alodine 1500
D.O.T. PROPER SHIPPING NAME Rust Preventing Compounds
D.O.T. HAZARD CLASSIFICATION Corrosive
TECHNICAL CONTACT (NAME) J. A. Carroll
TELEPHONE NUMBER (215) 628-1324 EMERGENCY NUMBER (215) 628-1000

1 HAZARDOUS INGREDIENTS

MATERIAL	CAS NO.	CONTENT(% WT/WT)	HAZARD	TLV
Chromic Acid	7738-94-5	3-5	Carcinogen, NTP	
Ammonium Fluozirconate	1619-31-6	2-4	Corrosive	0.05mg/M ³
Fluozirconic Acid	12021-95-3	1-3	Irritant	N/A
			Corrosive	N/A

2 PHYSICAL DATA

APPEARANCE	Yellow Orange Liquid	SOLUBILITY IN WATER	Complete
ODOR	None	pH OF CONCENTRATE	
		@ 60° F	N/A
SPECIFIC GRAVITY		BOILING POINT ° F	> 212° F
@ 60° F	1.04-1.08		
OTHER:	N/A		

3 FIRE AND EXPLOSION DATA

FLASH POINT	None	TEST METHOD	EXTINGUISHING MEDIA	Water
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UNUSUAL FIRE OR EXPLOSION HAZARDS

Do not allow to come into contact with organic materials such as sawdust, rags, etc. Spontaneous compustion may result if material dries on such organic materials.

SPECIAL FIRE FIGHTING PROCEDURES
None

4 REACTIVITY DATA

STABLE ☒

UNSTABLE ☐

(CONDITIONS TO AVOID)

INCOMPATIBLE MATERIALS

Organic materials

HAZARDOUS POLYMERIZATION

WILL NOT OCCUR ☒

MAY OCCUR ☐

CONDITIONS TO AVOID

HAZARDOUS DECOMPOSITION PRODUCTS

None

5 HEALTH HAZARD DATA

Skin	Will burn
Eyes	Will burn
Ingestion	Will burn mucous membranes

6 FIRST AID RECOMMENDATIONS

Skin	Wash with soap and water and rinse thoroughly. Anyone who appears to suffer skin burns from this product should be seen by a doctor.
Eyes	Flush immediately with copious amounts of water for at least 15 minutes. Call a doctor.
Ingestion	Drink milk of magnesia, aluminum hydroxide gel, or limewater followed by several glasses of water. Call a doctor. Do not induce vomiting unless directed by a doctor.

7 SPILL PROCEDURES & WASTE DISPOSAL

Alodine 1500

SPILL PROCEDURES

Transfer any excess to a clean polyethylene container. Treat remaining residue with a dilute solution of sodium metabisulfite to reduce chrome. Neutralize with lime to pH 7-8.

WASTE TREATMENT

Flush reduced and neutralized material to treatment plant with plenty of water and with approval of regulatory agency.

8 PERSONAL PROTECTION

VENTILATION REQUIREMENTS

GENERAL AREA EXHAUST ☐

LOCAL EXHAUST ☒

NO EXHAUST NECESSARY ☐

PERSONAL PROTECTIVE EQUIPMENT

EYE PROTECTION

Safety goggles

SKIN PROTECTION

Rubber gloves and aprons

RESPIRATORY PROTECTION

None

OTHER REQUIRED EQUIPMENT

N/A

9 SPECIAL PRECAUTIONS AND STORAGE

Store in cool place away from organic materials.

PREPARED BY

John A. Carroll

DATE 10/24/85

TITLE

Manager, Technical Administration